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APPLICATION NO.	FILING DATE.	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/026,727	12/27/2001	Yuichiro Yamazaki	02887.0212	1979	
. 7	590 02/18/2003				
Finnegan, Henderson, Farabow,			EXAMINER		
Garrett & Duni 1300 I Street, N	N.W.		EL SHAMMA	A, MARY A	
Washington, D	C 20005-3315		ART UNIT	PAPER NUMBER	
			2881		
	•		DATE MAILED: 02/18/2003	DATE MAILED: 02/18/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

			14			
٠	Application No.	pplicant(s)	V			
	10/026,727	YAMAZAKI ET AL.				
Offic Action Summary	Examiner	Art Unit				
	Mary A. El-Shammaa	2881	roce			
The MAILING DATE of this communication app Peri d for Reply.	pears on the cover sheet with	r the correspondence add	7633			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1) Responsive to communication(s) filed on	·					
•—	nis action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disp sition of Claims						
 4) Claim(s) 1-20 is/are pending in the application 4a) Of the above claim(s) is/are withdra 						
5) Claim(s) is/are allowed.	WIT HOITI CONSIGCIATION.					
6)⊠ Claim(s) <u>1-20</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	or election requirement.	•				
Application Papers	, , , , , , , , , , , , , , , , , , , ,					
9) The specification is objected to by the Examine	er.					
10)⊠ The drawing(s) filed on <u>12-28-2000</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on	_ is: a)⊡ approved b)⊡ di	sapproved by the Examine	r.			
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Pri rity under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s) /						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	/ 5) Notice of I	Summary (PTO-413) Paper No(nformal Patent Application (PTC	s) D-152)			

DETAILED ACTION

Drawings

The drawings are objected to because the label "FIG. 1" in Figure 3 is unclear. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference sign(s) not mentioned in the description: 35. A proposed drawing correction, corrected drawings, or amendment to the specification to add the reference sign(s) in the description, are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Specification

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Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

Art Unit: 2881

The abstract of the disclosure is objected to because it exceeds the 150-word limit.

Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-11 and 13-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Todokoro et al. (6,310,341).

Regarding claims 1, 10, 11, and 13, Todokoro et al. discloses in FIGS. 1, 2, and 5 a system and method of inspecting a substrate comprising a substrate mounting part (201, 233, 235), a charged particle beam irradiation part (212) that causes secondary and/or reflected charged particles to generate from the substrate, an electron image detecting part (210) comprising a charged particle multiplying device (108) and an image grabbing element that has a fluorescent body (109), a magnifying mapping projecting part (505), an inspection part, and a control part (502) (Col. 1, Lines 42-65, Col. 3, Lines 9-58, Col. 4, Lines 20-67, Col. 5, Lines 1-29, Col. 7, Lines 65-67, Col. 8, Lines 1-16).

Regarding claims 2-4, 9, 14-16, and 20, Todokoro et al. discloses a first negative potential of 2 keV or less being applied to the surface of the charged particle multiplying device and a second negative potential being applied to the substrate mounting part, wherein the absolute value of the second potential is greater than that of the first potential (Col. 4, Lines 32-38 and 55-67).

Regarding claims 5, 6, 17, and 18, Todokoro et al. discloses in FIG. 2 three-stage electrostatic lenses (203, 205, 209) (Col. 5, Lines 16-29).

Regarding claim 7, Todokoro et al. discloses a vacuum vessel, which is well known in the art for housing a substrate inspection system (Col. 8, Lines 34-35).

Regarding claims 8 and 19, Todokoro et al. discloses in FIG. 2 deflectors (223, 230, 236) for changing the incident angle of the charged particle beam and therefore changing the angle at which the secondary and/or reflected charged particles are incorporated into the mapping projecting part (Col. 5, Lines 44-45, Col. 6, Lines 18-24).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Todokoro et al. in view of Yamazaki et al. (6,038,018).

Regarding claim 12, Yamazaki et al. discloses an image grabbing element that includes a Time Delay Integrator Charge Coupled Device (TDICCD) element in a substrate inspecting system because the TDICCD effectively increases the inspection process at higher speeds (Col. 7, Lines 56-62). It would have been obvious to one having ordinary skill in the art at the time the invention was made to include the TDICCD taught by Yamazaki et al. in the system of Todokoro et al. because it increases the effectiveness at high speeds.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. (5,578,821), (6,329,826), (6,172,363), (6,492,644), (6,043,490).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mary A. El-Shammaa whose telephone number is 703.308.0851. The examiner can normally be reached on M-F(8:30am-5:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John R. Lee can be reached on 703.308.4116. The fax phone numbers for the organization where this application or proceeding is assigned are 703.872.9318 for regular communications and 703.872.9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703.872.9317.

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January 31, 2003

SUPERVISORY PATENT EXAMI

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